A. CLASSIFICATION OF SUBJECT MATTER

IPC ⁷ B 62 J 6/20, 23/00, 27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B 62 J+

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CIBEPAT, EPODOC, WPI, PAJ

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	ES 1027262 U (A. SELLES GARCIA) 16.07.1994. The whole document.	1,2
X	US 3945336 A (HARRIS) 23.03.1976. The whole document.	1,2
X A	US 4342280 A (ASHWORTH) 03.08.1982. Column 2, lin 59 - column 4, line 45, figures.	1.2
X A	US 3967575 A (COUTTS) 06.07.1976. The whole document.	1,2
Α	US 4747664 A (SLAUGHTER) 31.05.1988. Column 1, lines 43-68, figures.	1,3
A	US 2586643 A (GARLOW) 19.02.1952. The whole document.	1-3

			d are basen rame) amion
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	«Ja	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"O" "P"	document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	- 	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
Date	of the actual completion of the international search	Date o	of mailing of the international search report
٠.	21 October 2003 (21.10.03)		31 October 2003 (31.10.03)
Nam	e and mailing address of the ISA/	Autho	rized officer
Facs	imile No.	Telepl	hone No.



C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	TIC ACCASA A (TEDOLIET et al.) 06 05 1096. The whole document	1,2
A	US 4586454 A (HEDQUIST et al.) 06.05.1986. The whole document.	
Α	US 4038935 A (MARGILOFF) 02.08.1977. Column1, figures.	1,2 1,2
A	DE 29609065 U1 (REINHOLD LORENZEN) 08.08.1996. The whole document.	1,2
	A 1930 (Airmsting of second sheet) (July 1992)	

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: 4 and 5 because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Вох П	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	emational Searching Authority found multiple inventions in this international application, as follows:
3.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1992)

INTERNATIO SEARCH REPORT Information of patent family members

Internatio plication No
PCT/ES03/00332

Patent document cited in search report	Publication date		atent familiy member(s)	Publication date
ES 1027262 U	16.07.1	994	NONE	
US 3945336 A	23.03.1	976	DE 2600984 A	21.07.1977
US 4342280 A	03.08.19	982	NONE	
US 3967575 A	06.07.19	976	NONE	
US 4747664 A	31.05.19		NONE	
US 2586643 A	19.02.19	952	NONE	
US 4586454 A	06.05.19	986	NONE	
US 4038935 A	02.08.19		NONE	
DE 29609065 U1	08.08.19	996	NONE	